REMARKS

Claims 1-25 are pending in the application. Claims 1, 7, 12, 19, and 23 are inder indent. Claims 23-25 have been withdrawn from consideration. By the foregoing Ameriment, Applicants have amended claims 1, 2, 7, 12, and 19. These changes are believed to introduce no new matter and their entry is respectfully requested.

Rejection of Claims 1-4 Under 35 U.S.C. §102(b)

In the Office Action, the Examiner rejected claims 1-4 under 35 U.S.C. §102(e) a being anticipated by U.S. Patent No. 6,387,808 to Schlitz et al. (hereinafter "Schlitz"). A c aim is anticipated only if each and every element of the claim is found, either expressly or inhereally, in a reference. (MPEP §2131 citing Verdegaal Bros. v. Union Oil Co. of California, 814 F. 2d 628 (Fed. Cir. 1987)). The identical invention must be shown in as complete detail as is contained in the claim. Id. citing Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236 (Fed. Cir. 989)). Applicants respectfully traverse the rejections.

Embodiments of the present invention are directed to fabrication of a micro-ele trical-mechanical system (MEMS) device, such as a vibrator, whose surface is not planar but it cludes fingers of a sort, each of which includes a weight (i.e., length-height-width). The weights of the fingers should be uniform. Amended claim 1 recites in pertinent part "fabricating a nicro-electrical-mechanical system (MEMS) device by: forming a layer of material on a silicon wafer, the silicon wafer having variations in surface topology comprising at least one thick region and at least one thin region, the layer of material having variations in surface topology comprising at least one thick regions and at least one thin region corresponding to the thick regions and the thin regions of the wafer, respectively; and forming at least one narrow region and at le st one wide region in the layer of material, the narrow regions and the wide regions correspon ing to the thick regions and the thin regions of the wafer, respectively" (emphasis added). Support for these changes can be found in Applicants' Specification at paragraph [0030].

Applicants respectfully submit that Schlitz is not properly applied to the c aimed invention. Schlitz appears to be directed to "a method of correcting topographical effection a microelectronic substrate" (emphasis added) (see Abstract). The problem addressed in Scilitz is

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that certain "zones of the substrate having very small patterns are excluded because of the reduction in the size of the patterns in the resin (see FIG. 3b) due to the reduction in the size of the openings 24 in the mask 22. If these zones are large, they give rise to a phenomenon similar to the dishing effect encountered in pure mechanical and chemical polishing" (emphasis dded). (Col. 3, lines 42-49). The solution proposed by Schlitz is a chemical and mectanical planarization (CMP) process that uses a resin process to remove topography and make a planar surface on the microelectronic substrate. In other words, Schlitz is attempting to 1 take a microelectronic substrate flat. Schlitz does not address micro-electrical-mechanical system (MEMS) devices, but is limited to semiconductor devices. Moreover, Schlitz is not interested in maintaining its surface non-planar. Applicant respectfully submits therefore that Schlitz is not properly applied to the claimed invention.

Even, assuming for the sake of argument, that Schlitz is properly applied to the c aimed invention, Applicants respectfully submit that Schlitz fails to show the identical invention as that of the claimed invention. For example, Schlitz fails to teach "fabricating a micro-ele trical-mechanical system (MEMS) device." As discussed above, this is because Schlitz is not concerned with micro-electrical-mechanical system (MEMS) devices, but with semicon luctor devices. Because Schlitz is not properly applied to and/or fails to teach each and every element of the claimed invention, Applicants therefore respectfully submit that claim 1 is patentale elevery.

Claims 2-4 properly depend from claim 1, which Applicants respectfully sul mit is patentable. Accordingly, Applicants respectfully submit that claims 2-4 are patentable for t least the same reasons that claim 1 is patentable. (MPEP §2143.03 (citing *In re Fine*, 837 F.2d 071, 5 USPQ2d 1596 (Fed. Cir. 1988)). Accordingly, Applicants respectfully request that the Ex uniner reconsider and remove the rejection to claims 1-4.

Rejection of Claims 1 and 3 Under 35 U.S.C. §102(b)

In the Office Action, the Examiner rejected claims 1 and 3 under 35 U.S.C. §10 :(b) as being anticipated by U.S. Patent No. 5,976,769 to Chapman (hereinafter "Chapman"). Applicants respectfully traverse the rejections.

42P16636 Serial No. 10/675,587 Amended claim 1 recites in pertinent part "fabricating a micro-electrical-mec anical system (MEMS) device" (emphasis added). Support for these changes can be fc ind in Applicants' Specification at paragraph [0030].

Applicants respectfully submit that Chapman is not properly applied to claim 1. Cl apman appears to be directed to "fabrication of semiconductor devices" (emphasis adde) (see Background). Chapman also addresses the problem of lack of planarity. The solution proposed in Chapman is to deposit a titanium nitride TiN antireflective coating or other buried antire tective coating (BARC) to control uniformity of an electronic circuit. In other words, Chapman is attempting to make circuits on semiconductor substrate flat. Chapman does not address microelectrical-mechanical system (MEMS) devices, but is limited to semiconductor evices. Moreover, Chapman is not interested in maintaining its surface non-planar. Applicant respectfully submits therefore that Chapman is not properly applied to claim 1.

Even, assuming for the sake of argument, that Chapman is properly applied to c aim 1, Applicants respectfully submit that Chapman fails to show the identical invention as hat of claim 1. For example, Chapman fails to teach "fabricating a micro-electrical-meci anical system (MEMS) device." As discussed above, this is because Chapman is not concerned with micro-electrical-mechanical system (MEMS) devices, but with semiconductor devices. It scause Chapman is not properly applied to and/or fails to teach each and every element of the caimed invention, Applicants therefore respectfully submit that claim 1 is patentable over Chapman.

Claim 3 properly depends from claim 1, which Applicants respectfully sulmit is patentable. Accordingly, Applicants respectfully submit that claim 3 is patentable for at l_1 is the same reasons that claim 1 is patentable. (MPEP §2143.03 (citing *In re Fine*, 837 F.2d 071, 5 USPQ2d 1596 (Fed. Cir. 1988)). Accordingly, Applicants respectfully request that the Ex uniner reconsider and remove the rejection to claims 1 and 3.

Rejection of Claims 5-6 Under 35 U.S.C. §103(a)

In the Office Action, the Examiner rejected claims 5-6 under 35 U.S.C. §10 (a) as unpatentable over Schlitz in view of U.S. Patent No. 5,502,564 to Ledger. (here mafter

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"Ledger"). To establish a *prima facie* case of obviousness, an Examiner must show three things: (1) that there is some suggestion or motivation to modify a reference or combine re erence teachings to arrive at the claimed invention, (2) that there must be a reasonable expect ion of success, and (3) that the references teach or suggest each and every element of the claimed invention. (MPEP §2143.) Applicants respectfully traverse the rejection.

Claims 5-6 properly depend from claim 1, which applicants respectfully su mit is patentable. Accordingly, Applicant respectfully submits that claims 5-6 are patentable : well. (See MPEP §2143.03 (citing *In re Fine.*)) Accordingly, Applicant respectfully requests 1 at the Examiner reconsider and remove the rejection to claims 5-6.

Rejection of Claims 7-10 Under 35 U.S.C. §103(a)

In the Office Action, the Examiner rejected claims 7-10 under 35 U.S.C. §10 (a) as unpatentable over Schlitz in view of U.S. Patent No. 6,437,903 to Kozhukh et al. (her inafter "Kozhukh"). Applicants respectfully traverse the rejection.

Amended claim 7 recites in pertinent part "fabricating a micro-electrical-meci anical system (MEMS) device" (emphasis added). Support for these changes can be found in Applicants' Specification at paragraph [0030].

The Examiner asserts with respect to claim 7 that Schlitz teaches a method as applied to claims 1-4 above but lacks mentioning a machine-accessible medium. The Examina cites Kozhukh to make up for this deficiency. Applicants respectfully disagree.

As discussed above with respect to claim 1, Applicants respectfully submit that Scalitz is not properly applied to claim 7 and/or fails to teach each and every element of claim 7 (semiconductor fabrication and planarization versus fabrication of micro-electrical-mechanical system (MEMS) devices maintaining their non-planar structure). Applicants respectfully submit that Kozhukh fails to make up for this deficiency. That is, Kozhukh fails to teach each an every element of claim 7 (fabrication of micro-electrical-mechanical system (MEMS) evices maintaining their non-planar structure). Accordingly, Applicants respectfully submit that Schlitz

42P16636 Serial No. 10/675,587 Examiner: Trinh, Michs 1 Manh Art Ur t: 2822 in view of Kozhukh fails to teach or suggest each and every element of claim 7. Because Schlitz in view of Kozhukh fails to teach or suggest each and every element recited in c im 7, Applicants therefore respectfully submit that claim 7 is patentable over Schlitz in vew of Kozhukh.

Claims 8-10 properly depend from claim 7, which applicants respectfully su mit is patentable. Accordingly, Applicant respectfully submits that claims 8-10 are patentable : 3 well. (See MPEP §2143.03 (citing *In re Fine*.)) Accordingly, Applicant respectfully requests 1 1 the Examiner reconsider and remove the rejection to claims 7-10.

Rejection of Claim 11 Under 35 U.S.C. §103(a)

In the Office Action, the Examiner rejected claim 11 under 35 U.S.C. §10 (a) as unpatentable over Schlitz in view of Kozhukh in further view of Ledger. Applicant respectfully traverses the rejection. Claim 11 properly depends from claim 7, which applicants respectfully submit is patentable. Accordingly, Applicant respectfully submits that claim 11 is patentable as well. (See MPEP §2143.03 (citing *In re Fine.*)) Accordingly, Applicant respectfully reque ts that the Examiner reconsider and remove the rejection to claim 11.

Rejection of Claim 12-13 and 16-17 Under 35 U.S.C. §103(a)

In the Office Action, the Examiner rejected claims 12-13 and 16-17 under 35 J.S.C. §103(a) as unpatentable over Schlitz in view of U.S. Patent No. 5,015,602 to Van Der Pla; et al. (hereinafter "Van Der Plas") in further view of U.S. Patent No. 5,155,053 to A cinson (hereinafter "Atkinson"). Applicants respectfully traverse the rejection.

Amended claim 12 recites in pertinent part "fabricating a micro-electrical-meclanical system (MEMS) device" (emphasis added). Support for these changes can be fond in Applicants' Specification at paragraph [0030].

As discussed above with respect to claim 1 and 7, Applicants respectfully subr it that Schlitz is not properly applied to claim 12 and/or fails to teach each and every element o claim 12 (semiconductor fabrication and planarization versus fabrication of micro-ele trical-

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mechanical system (MEMS) devices maintaining their non-planar structure). Ap licants respectfully submit that Van Der Plas fails to make up for this deficiency. That is, Van I er Plas in combination with Schlitz fails to teach each and every element of claim 12 (fabrica ion of micro-electrical-mechanical system (MEMS) devices maintaining their non-planar structure). Like Schlitz, Van Der Plas appears to be directed to planarization of a semiconductor devi e.

Applicants respectfully submit that Atkinson fails to make up for this deficiency. hat is, the combination of Atkinson, Schlitz, and Van Der Plas fails to teach each and every element of claim 12 (fabrication of micro-electrical-mechanical system (MEMS) devices maintaining their non-planar structure). Atkinson appears to be directed to fabrication of a hard mask to transfer a small dimension to silicon during the fabrication of a microelectronic device, planarization of a semiconductor device. Accordingly, Applicants respectfully submit that Schlitz in view of Van Der Plas in further view of Atkinson fails to teach or suggest each and every element or claim 12. Because Schlitz in view of Van Der Plas in further view of Atkinson fails to teach or suggest each and every element recited in claim 12, Applicants therefore respectfully submit that claim 12 is patentable over Schlitz in view of Van Der Plas in further view of Atkinson.

Claims 13 and 16-17 properly depends from claim 12, which applicants respectfully submit is patentable. Accordingly, Applicant respectfully submits that claims 13 and 16 17 are patentable as well. (See MPEP §2143.03 (citing *In re Fine*.)) Accordingly, Applicant respectfully requests that the Examiner reconsider and remove the rejection to claim 12-13 and 16-17.

Rejection of Claims 14-15 Under 35 U.S.C. §103(a)

In paragraph 11, the Examiner rejected claims 14-15 under 35 U.S.C. §10: (a) as unpatentable over Schlitz in view of Van Der Plas in view of Atkinson and in further view of U.S. Patent No. 5,112,602 to Banks et al. (hereinafter "Banks). Applicant respectfully reverses the rejection. Claims 14-15 properly depend from claim 12, which applicants respectfully submit is patentable. Accordingly, Applicant respectfully submits that claims 14-15 are patent ble as well. (See MPEP §2143.03 (citing *In re Fine*.)) Accordingly, Applicant respectfully reque to that the Examiner reconsider and remove the rejection to claims 14-15.

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Rejection of Claim 18 Under 35 U.S.C. §103(a)

In paragraph 12, the Examiner rejected claim 18 under 35 U.S.C. §103(a) as unpatentable over Schlitz in view of Van Der Plas in view of Atkinson and in further view of . edger. Applicant respectfully traverses the rejection. Claim 18 properly depends from claim 12 which applicants respectfully submit is patentable. Accordingly, Applicant respectfully subm ts that claim 18 is patentable as well. (See MPEP §2143.03 (citing In re Fine.)) Accordingly, At alicant

respectfully requests that the Examiner reconsider and remove the rejection to claim 18.

Rejection of Claims 19-20 Under 35 U.S.C. §103(a)

In paragraph 13, the Examiner rejected claims 19-20 under 35 U.S.C. §10 (a) as unpatentable over Schlitz in view of Van Der Plas in view of Atkinson as applied to clai as 12-

13 and 16-17 and in further view of Kozhukh. Applicant respectfully traverses the rejectio.

Amended claim 19 recites in pertinent part "fabricating a micro-electrical-meci anical system (MEMS) device" (emphasis added). Support for these changes can be fo nd in

Applicants' Specification at paragraph [0030].

As discussed above with respect to claim 12, the combination of Schlitz, Atkins a, and Van Der Plas fails to teach each and every element of claim 12. Also as discussed about with reference to claim 7, Kozhukh fails to make up for the deficiency. Thus, the combinatior of the combination of Schlitz, Atkinson, Van Der Plas, and Kozhukh fails to teach each anc every element of claim 19 (fabrication of micro-electrical-mechanical system (MEMS) evices maintaining their non-planar structure). Accordingly, Applicants respectfully submit that Schlitz in view of Van Der Plas in further view of Atkinson in further view of Kozhukh fails to t ach or suggest each and every element of claim 19. Because that Schlitz in view of Van Der 'las in further view of Atkinson in further view of Kozhukh fails to teach or suggest each and every element recited in claim 19, Applicants therefore respectfully submit that claim 19 is pat ntable over that Schlitz in view of Van Der Plas in further view of Atkinson in further view of

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Kozhukh.

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Claim 20 properly depends from claim 19, which applicants respectfully su mit is patentable. Accordingly, Applicant respectfully submits that claim 20 is patentable as we I. (See MPEP §2143.03 (citing *In re Fine.*)) Accordingly, Applicant respectfully requests that the Examiner reconsider and remove the rejection to claims 19-20.

Rejection of Claims 21-22 Under 35 U.S.C. §103(a)

In paragraph 11, the Examiner rejected claims 21-22 under 35 U.S.C. §10 (a) as unpatentable over Schlitz in view of Van Der Plas in view of Atkinson in view of B nks in further view of Kozukh. Applicant respectfully traverses the rejection. Claims 21-22 p operly depend from claim 19, which applicants respectfully submit is patentable. Accordingly, Applicant respectfully submits that claims 21-22 are patentable as well. (See MPEP §1 143.03 (citing In re Fine.)) Accordingly, Applicant respectfully requests that the Examiner reconsider and remove the rejection to claims 21-22.

CONCLUSION

Applicants submit that all grounds for rejection have been properly tra ersed, accommodated, or rendered moot, and that the application is in condition for allowance. The Examiner is invited to telephone the undersigned representative if the Examiner believes hat an interview might be useful for any reason.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN

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